

Approved For Release 2001/09/04 : CIA-RDP92B01090R000600010005-6

S E C R E T

EIC-S-1 Series

SURVEY
OF
PRIORITY RESEARCH DEFICIENCIES OF ECONOMIC INTELLIGENCE
ON THE SOVIET BLOC

NAVY/USAF DECLASSIFICATION/RELEASE INSTRUCTIONS ON FILE

1954

Issued by the
Economic Intelligence Committee

S E C R E T

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WARNING

This material contains information affecting the National Defense of the United States within the meaning of the espionage laws, Title 18, USC, Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

210-5-1/3

2. Programming of Research Priorities

Paper on priority research gaps is now being prepared by the Subcommittee.

1955

(2a) Research and Collection Deficiencies

The Subcommittee completed work on a draft paper titled "Proposed Priority Research Deficiencies of Sino Soviet Bloc Shipbuilding" and submitted same for E.I.C. approval by memo dated 31 May 1956.

1956

(2b) The Subcommittee is currently awaiting the report of Priority Collection Deficiencies.

Shipbuilding

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Priority Deficiencies of Research
on
Sino-Soviet Bloc Shipbuilding

EIC-S-1/13
APPROVED BY EIC
18 March 1957

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
I. Methodology for estimating the maximum capability and the limitations of a shipyard for the production of both naval and merchant vessels.	The development of a standard, concise method of utilizing the basic data of shipyard facilities, availability of components and material, labor, techniques, etc., for estimating the potential productive capacity of a given shipyard.	Present estimates of shipbuilding capabilities, made by the various agencies, differ widely because of lack of uniformity in evaluating the influence of various factors upon possible maximum production capability. If a standard method can be derived which is in agreement with factual production data, it would be valuable to US mobilization planners as well as to the intelligence agencies.	A working group of the EIC sub-committee on shipbuilding is currently working on this problem.	It is recommended that work on this problem continue with high priority.

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Priority Deficiencies of Research

EIC-8-1/13
18 March 1957

on

Sino-Soviet Bloc Shipbuilding

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
II. Studies of major shipbuilding components manufactured by component plants and shipyards.	The identification of plants and shipyards in the Sino-Soviet Bloc countries producing the major ship components; also production capacity estimates and association of specific supporting plants with specific shipyards.	To determine the pattern of flow of components in the shipbuilding industry in order to assist in determining the capability, possible bottlenecks, and the mobilization potential of the shipbuilding industry.	ONI and CIA plan research studies of marine boilers and turbines, ships reduction gears, steel plates, steering gears, winches, and pumps in the USSR.	ONI and CIA should complete planned studies, coordinating them to avoid duplication. Upon completion, these studies should be reviewed to determine the nature and extent of any further research needed in these fields.

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Priority Deficiencies of Research
on
Sino-Soviet Bloc Shipbuilding

ETC-S-1/13
18 March 1957

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
III. Input requirements of the shipbuilding industry showing the materials, power, and manpower for each type of vessel.	Input coefficients for each class and size of vessel will be established, based on US or similar practices. Where possible similar coefficients will be established for Soviet practices. The coefficients will be broken down to show those normally required within the shipyard and those normally required by the component or other supporting industries which supply the shipyard with finished or semi-finished material--i.e., the materials, manpower, etc., required to produce the machinery, etc. (Requirements for producing the raw steel will not, however, be included, the unfabricated steel being itself considered a raw material.)	These data are necessary to estimate the drain of the shipbuilding industry on the economies of Bloc countries.	CIA has completed a tabulation of input coefficients which has been reviewed by a working group of the EIC Subcommittee on Shipbuilding. CIA F.Y. 57 plans include a study of input requirements of the USSR shipbuilding industry. ONI is obtaining data on naval vessels from the Bureau of Ships and the Bureau of Ordnance.	CIA should develop input requirements for merchant and inland vessels; and ONI should develop them for naval vessels. These studies should then be issued as sub-committee working papers and made available to all interested agencies.

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Priority Deficiencies of Research
on
Sino-Soviet Bloc Shipbuilding

EIC-S-1/13
18 March 1957

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
IV. Studies of individual major shipyards (economic aspects).	Plans and programs for individual major shipyards; plan fulfillment; value of capital facilities and production equipment; past and future planned increase in capital investment; convertibility; production by number, type tonnage and value; source of supply of materials and components; labor productivity; technology of materials and production methods as they affect costs and other economic aspects; transportation requirements; education and training programs; biographic data; economic weaknesses.	To improve the basis for assessing the economic importance, capability and intentions of the individual yards and of the shipbuilding industry as a whole.	ONI has in process studies of all shipyard facilities in the USSR. CIA (ORR) is continuing studies of major shipyards in the USSR, as priorities and manpower permit. [redacted] also has four USSR shipyard studies in process. 25X1X	ONI should include as many of the requirements as feasible in their continuing studies of shipyard facilities; CIA should make additional studies as their workload permits.

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Priority Deficiencies of Research

ON

Sino-Soviet Bloc Shipbuilding

ECG-8-1/13
18 March 1977

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
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V. Studies of minor and small shipyards (individually, economically aspects).

Principal facilities of minor and small shipyards; their production and production techniques; and economic aspects.

For estimating the maximum production capability to construct the smaller types of both merchant and naval vessels.

CIA (ORR) has completed studies in 7 of the 12 economic regions of the USSR. ONI has in process of completion NIS studies on Romania, Hungary, and Communist China. NIS Section 35 and Supplement I for the USSR are also in process. These NIS contributions will treat this category of shipyards in appropriate textual and/or tabular detail where the yards are located in principal or secondary ports; and in tabular form (to include adequate details of building and repair facilities) where located in minor seaports or sited inland.

CIA and ONI should complete the phases of work now in process and coordinate planning for future studies with AFOIM.

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Priority Deficiencies of Research

on

Sino-Soviet Bloc Shipbuilding

ENC-S-1/13
18 March 1977

1
Subject Requiring Research

2
Aspects to be Emphasized

3
End Uses of Research Study
or
Other Reasons for Priority

4
Title of Research in Process
or Planned

5
Recommended Action

VI. Production and repair of
merchant ships under
9,000 GRT, inland and
fishing craft.

Past and current
production by number,
size, type, etc.

Required to combine with III
and IX to show economic impor-
tance and total economic
requirements of the industry.

CIA and ONI have projects
scheduled which will partially
meet the deficiency in merchant
ship production estimates for
the USSR, Rumania, Hungary, and
Communist China.

Additional studies
should be initiated
by the same agencies
as early as possible.

VII. Imports and exports of
materials, components,
and new vessels within
the Sino-Soviet Bloc.

Number, type, tonnage, and
value of new vessels
imported or exported intra-
Bloc; and value of new
materials and components
imported or exported intra-
Bloc; number, type, and
tonnage of vessels repaired
in or for other Bloc
countries, and value of such
repairs.

CIA is required each year to make
estimates of this nature. ONI
also prepares studies on this
subject.

CIA should continue
to prepare estimates
of intra-Bloc
shipbuilding
industry movements
and coordinate with
ONI, through the
Subcommittee on
Shipbuilding.

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Priority Deficiencies of Research
on
Sino-Soviet Bloc Shipbuilding

RIC-S-1/13
18 March 1957

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
VIII. Employment in the shipbuilding industry.	Present employment, education and training, estimated future available trained labor force, present and estimated future labor productivity.	Correlate with shipyard studies and with I, II, and III to estimate future capabilities and intentions.	CIA and ONI have in process NIS Section 64E on Rumania, Hungary, USSR and Communist China, which will partially meet this requirement.	ONI should complete the same NIS sections for the remaining Bloc countries.
IX. Costs of construction of naval and merchant vessels.	Cost of production by type and size of vessels in US dollars and in native currency.	Necessary to show economic importance, and economic drain on the national economy by relation to other items in the national budgets.	CIA has studies scheduled on USSR for two types of vessels in F.Y. 57.	Additional studies should be scheduled for future research by CIA, with assistance from ONI.
X. Capital investment in the industry.	Value of facilities in 1946; planned and actual capital investment, 1946 to present, estimated future capital investment.	Required to coordinate with IX to arrive at real cost as compared with US costs. Correlated with shipyard studies and with I, II, and III to estimate future capabilities and intentions.	None.	Future research studies should be planned by CIA.

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Proposed Priority Research Deficiencies
of

Sino-Soviet Bloc Shipbuilding *← (all caps)*

EIC-S-1113
~~(LIT)~~ 18 Feb 1957
FOR EIC APPROVAL

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Subject Requiring Research	Aspects to be Emphasized	End Uses of Research Study or Other Reasons for Priority	Title of Research in Process or Planned	Recommended Action
I. Methodology for estimating the maximum capability and the limitations of a shipyard for the production of both naval and merchant vessels.	The development of a standard, concise method of utilizing the basic data of shipyard facilities, availability of components and material, labor, techniques, etc., for estimating the potential productive capacity of a given shipyard.	Present estimates of shipbuilding capabilities, made by the various agencies, differ widely because of lack of uniformity in evaluating the influence of various factors upon possible maximum production capability. If a standard method can be derived which is in agreement with factual production data, it would be valuable to U. S. mobilization planners as well as to the intelligence agencies.	A working group of the EIC sub-committee on shipbuilding is currently working on this problem.	It is recommended that work on this problem continue with high priority.

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Proposed Priority Research Deficiencies of

(ops) → Sino-Soviet Bloc Shipbuilding

1	2	3	4	5
Subject Requiring Research	Aspects to be Emphasized	End Uses of Research Study or Other Reasons for Priority	Title of Research in Process or Planned	Recommended Action
II. Studies of Major ship-building components manufactured by component plants and shipyards.	The identification of plants and shipyards in the Sino-Soviet Bloc countries producing the major ship components; Also production capacity estimates and association of specific supporting plants with specific shipyards.	To determine the pattern of flow of components in the shipbuilding industry in order to assist in determining the capability, possible bottlenecks, and the mobilization potential of the shipbuilding industry.	ONI and CIA plan research studies of marine boilers and turbines, ships reduction gears, steel plates, steering gears, winches, and pumps on the U.S.S.R.	ONI and CIA complete studies planned, avoiding duplication. Upon completion, these studies should be reviewed and a decision made as to the necessity and possibility of further research in these fields. <i>to determine the nature of any further research needed in these fields.</i>

Coordinating them to

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Proposed Priority Research Deficiencies of Sino-Soviet Bloc Shipbuilding

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
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III. Input requirements of the shipbuilding industry showing the materials, power, and manpower for each type of vessel.

Input coefficients for each class and size of vessel will be established, based on U.S. or similar practices. Where possible similar coefficients will be established for Soviet practice. The coefficients will be broken down to show those normally required within the shipyard and those normally required by the component or other supporting industries which supply the shipyard with finished or semi-finished material. *Viz.* the materials, manpower, etc., required to produce the machinery, etc. *with be included, however, those required to produce the raw steel will not be included, the unfabricated steel being considered a raw material.*

These data are necessary to estimate the drain of the shipbuilding industry on the economy of Bloc countries.

F. Y. 58 CIA plans include a study of input requirements of the U.S.S.R. shipbuilding industry. ONI presently is obtaining data on naval vessels from the Bureau of Ships and the Bureau of Ordnance. CIA has completed a tabulation of input coefficients which is now being reviewed by a working group of the EIC Sub-committee on Shipbuilding.

CIA should develop input requirements for merchant and inland vessels and ONI for naval vessels. These studies should then be prepared as a subcommittee working paper and made available to all interested agencies.

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Proposed Priority Research Deficiencies

of an
Sino-Soviet Bloc Shipbuilding

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process of Planned	5 Recommended Action
IV. Economic aspects of major shipyards. <i>Studies of individual major shipyards (economic aspects).</i>	Plans and programs; plan fulfillment; value of capital facilities and production equipment; past and future planned increase in capital investment; convertibility; production by number, type tonnage and value; etc. , source of supply of materials and components; labor productivity; technology of materials and production methods; transportation requirements; education and training programs; biographic data; economic weaknesses.	To improve the basis for assessing the economic importance, capability and intentions of the individual yards and of the shipbuilding industry as a whole. <i>they affect costs and further economic aspects;</i>	CIA (ORR) is continuing studies of major shipyards in the U. S. S. R., as priorities and manpower permit. ██████ also has four U. S. S. R. shipyard studies in process. ONI now has in process studies of all shipyard facilities in the U. S. S. R.	ONI should include as many of the requirements as feasible in their continuing studies of shipyard facilities; CIA to make additional studies as necessary . <i>this work load permits.</i>

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Proposed Priority Research Deficiencies

of
Sino-Soviet Bloc Shipbuilding

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
V. Studies of minor and small shipyards of the Sino-Soviet Bloc. <i>(individually, economic aspects)</i>	<i>of minor and small shipyards;</i> Principal facilities, production, technological, and economic aspects.	For estimating the maximum production capability to construct the smaller types of both merchant and naval vessels.	CIA (ORR) has completed studies in 7 of the 12 economic regions of the U. S. S. R. ONI has in process for completion in E. V. 56 NIS studies on Rumania, Hungary, ^{and} Communist China.	CIA, ONI and APORN ^{should} complete the phases of work now in process and coordinate planning for future studies with ^{with} APORN.
			NIS Section 35 and Supplement 1 for U. S. S. R. are now in ^{also in} process, in ONI . These NIS contributions will treat this category of shipyards in appropriate textual and/or tabular detail where the yards are located in principal or secondary ports; and in tabular form to include adequate details of building and repair facilities) where located in minor seaports or sited inland.	

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Proposed Priority Research Deficiencies of
of an
Sino-Soviet Bloc Shipbuilding

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
VI. Production and repair of merchant ships under 1,000 GRT, inland and fishing craft.	Past and current production by number, size, type, etc.	Required to combine with III and IX to show economic importance and total economic requirements of the industry.	CIA, ONI and AFOIN have projects scheduled which will partially meet the deficiency in merchant ship production estimates for the U.S.S.R., Rumania, Hungary and Com-China.	<i>Additional</i> Studies to fill the remaining gaps should be scheduled by the same agencies as early as possible.
VII. Imports and exports of materials, components, and new vessels within the Sino-Soviet Bloc.	Number, type, tonnage, and value of new vessels; type, amount, and value of materials and components imported or exported intra-Bloc; number, type, and tonnage of vessels repaired in or for other Bloc countries, and value of such repairs.	<i>imported or exported intra-Bloc;</i> To assist in assessing the interdependence of bloc countries within themselves.	CIA is required each year to make estimates of this nature. ONI also prepares studies on this subject.	<i>should continue to</i> CIA prepare estimates of intra-Bloc shipbuilding industry movements and coordinate with ONI through the Subcommittee on Shipbuilding.

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Proposed Priority Research Deficiencies
of
Sino-Soviet Bloc Shipbuilding

1 Subject Requiring Research	2 Aspects to be Emphasized	3 End Uses of Research Study or Other Reasons for Priority	4 Title of Research in Process or Planned	5 Recommended Action
VIII. Employment in the ship- building industry.	Present employment, education and training, estimated future avail- able trained labor force, present and estimated future labor productivity.	Correlate with shipyard studies and with I, II, and III to estimate future capabilities and intentions.	CIA and ONI have in process NIS Section 64E on Rumania Hungary, USSR and Communist China, which will partially meet this requirement.	ONI complete NIS studies <i>to some extent</i> <i>studies for the</i> <i>remaining Bloc</i> <i>Countries.</i>
IX. Costs of construction of naval and merchant vessels.	Cost of production by type and size, etc., as listed in Vb in US dollars and in native currency.	Necessary to show economic importance, economic drain on the national economy by re- lation to other items in the national budgets.	CIA has studies scheduled on USSR for two types of vessels in F. Y. 57.	Additional studies shall be scheduled for future research by CIA, with assistance from ONI.
X. Capital investment in the industry.	Value of facilities in 1946; planned and actual capital investment, 1946 to present, estimated future capital investment.	Required to coordinate with ^{IX} VI to arrive at real cost as compared with US costs. Correlated with shipyard studies and with I, II and III to estimate future capa- bilities and intentions.	None.	Future research studies ^{will} be planned by CIA.

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Transportation

(a) Merchant Shipping (EIC-S-1/9a)

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Transportation
(a) Merchant Shipping